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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/531,379

04/15/2005

Herbert Baltes

48665

6525

1609 7590 04/06/2007  
ROYLANCE, ABRAMS, BERDO & GOODMAN, L.L.P.  
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WASHINGTON,, DC 20036

EXAMINER

BRINSON, PATRICK F

ART UNIT

PAPER NUMBER

3754

SHORTENED STATUTORY PERIOD OF RESPONSE	MAIL DATE	DELIVERY MODE
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3 MONTHS

04/06/2007

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

**Office Action Summary**

Application No.

10/531,379

Applicant(s)

BALTES, HERBERT

Examiner

Patrick F. Brinson

Art Unit

3754

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-7 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)  
Paper No(s)/Mail Date 4/15/2005.

- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: \_\_\_\_.

## DETAILED ACTION

### *Claim Rejections - 35 USC § 112*

1. Claim 2 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claim 2 recites that the passage cross-section is reduced so “dramatically” that it “acts” as a particle filter. It is not clear what the limitation “reduces...so dramatically” means. It is also not clear how the reduction in cross-section “acts” as a particle filter.

### *Claim Rejections - 35 USC § 103*

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-7 are rejected under 35 U.S.C. 103(a) as being unpatentable over DE 1,450,347 to **Rothe** in view of DE 3,638,640 to **Larsson**.

The **Rothe** reference discloses a hydraulic accumulator including piston (1,2) which is moved within the housing in its axial direction and separates the gas side (10) from the fluid side (16). The periphery of the piston having guide elements (5, 6)

which interact with the wall of the accumulator housing and guide (5) also acts as a sealing element. Between sealing element (5) and guide element (6) is a pressure equalization channel (12) discharging on the periphery of the piston, and within the piston is a fluid path to the fluid side. Within the pressure equalization channel is a device (13) that reduces the passage cross section. Upstream of device (13) appears to be a ball valve that would function as a choke device. Likewise, member (13) could function as a nozzle or a porous filter element. **Rothe** does not disclose the structure of the dirt stripper lip. The **Larsson** reference discloses, fig. 1, a hydraulic accumulator piston (2) including guide element (6) adjacent the fluid side and formed with a guide belt with a dirt stripper lip which extends at least approximately to the end of the piston, the guide has a compression ring which sits in an annular groove of the piston periphery with a dirt stripper lip which lengthens its radially outside annular surface on one side in the axial direction and tapers towards its edge. The piston in the peripheral area extends from the fluid-side end to the annular groove has a section of reduced outer diameter over which the stripper lip extends. It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the **Rothe** reference to include a guide that included a dirt stripper lip, as suggested by **Larsson** in order to provide the piston with a means of pushing debris down from the sides of the piston that could possibly lodge between the piston and the side of the accumulator wall.

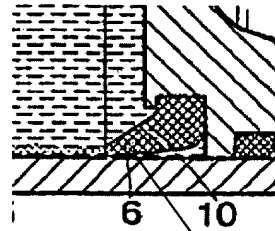
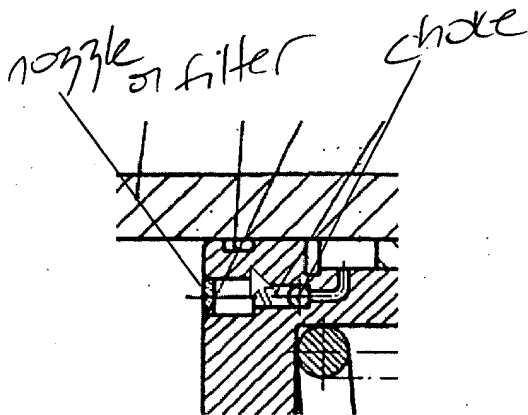


FIG 2

*Conclusion*

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The patents to Elmer, Tarsha '676 and '677, Klope et al., Ford et al., Berding et al., Fulmer, Nakamura and Greer are all pertinent to Applicant's invention in disclosing accumulators including pressure equalization channels therein.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Patrick F. Brinson** whose telephone number is (571) 272-4897. The examiner can normally be reached on M-F 7:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Kevin P. Shaver** can be reached on (571) 272-4720. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.



Patrick F. Brinson  
Primary Examiner  
Art Unit 3754

P. F. Brinson  
March 31, 2007